

Title (en)  
AIR FENCE FOR FAN BLADE

Title (de)  
SICHERHEITSAUN FÜR VENTILATORFLÜGEL

Title (fr)  
GUIDE-AIR POUR AUBE DE VENTILATEUR

Publication  
**EP 2483525 B1 20200617 (EN)**

Application  
**EP 10821061 A 20100924**

Priority  
• US 24815809 P 20091002  
• US 2010050125 W 20100924

Abstract (en)  
[origin: US2011081246A1] A fan comprises a rotatable hub, a plurality of fan blades coupled with the hub, and a plurality of air fences coupled with the fan blades. Each fan blade has a free end and an opposite end secured to the hub. The air fences are positioned at selected locations along the length of the fan blades, between the ends of the fan blades. Each air fence includes a fin, which may extend upwardly or downwardly from the fan blade. Each air fence may be formed of a resilient material and may be configured to allow the air fence to be snapped onto a fan blade. Each air fence may define an opening through which a fan blade may be inserted. One or more surfaces of the air fence may be contoured to complement a surface contour of an airfoil shaped fan blade.

IPC 8 full level  
**F04D 25/08** (2006.01); **F04D 29/38** (2006.01)

CPC (source: EP US)  
**F04D 19/002** (2013.01 - US); **F04D 25/088** (2013.01 - EP US); **F04D 29/326** (2013.01 - US); **F04D 29/388** (2013.01 - EP US)

Citation (examination)  
JP 2008215248 A 20080918 - MATSUSHITA ELECTRIC IND CO LTD

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**US 2011081246 A1 20110407**; **US 8753081 B2 20140617**; AU 2010300905 A1 20120223; AU 2010300905 B2 20160526;  
AU 2016213889 A1 20160901; AU 2016213889 B2 20180125; BR 112012007511 A2 20170523; BR 112012007511 B1 20201103;  
CA 2769708 A1 20110407; CA 2769708 C 20170912; CN 102549237 A 20120704; CN 102549237 B 20141008; EP 2483525 A1 20120808;  
EP 2483525 A4 20170802; EP 2483525 B1 20200617; ES 2819054 T3 20210414; JP 2013506785 A 20130228; JP 5917400 B2 20160511;  
MX 2012003911 A 20120508; MY 169846 A 20190517; SG 179003 A1 20120427; US 2014286779 A1 20140925; US 9574566 B2 20170221;  
WO 2011041220 A1 20110407

DOCDB simple family (application)  
**US 88947510 A 20100924**; AU 2010300905 A 20100924; AU 2016213889 A 20160812; BR 112012007511 A 20100924;  
CA 2769708 A 20100924; CN 201080041595 A 20100924; EP 10821061 A 20100924; ES 10821061 T 20100924; JP 2012532207 A 20100924;  
MX 2012003911 A 20100924; MY PI2012000466 A 20100924; SG 2012015665 A 20100924; US 2010050125 W 20100924;  
US 201414297870 A 20140606